

**Request to Archive
With The National Centers for Environmental Information
For Ice-Tethered Profiler Observations
Provided by WHOI**

2016-04-01

This information will be used by NCEI to conduct an appraisal and make a decision on the request.

1. Who is the primary point of contact for this request?

Frank Bahr

WHOI

research specialist

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email works best; fax works least well; cell phone is 508 524 5759

2. Name the organization or group responsible for creating the dataset.

WHOI/PO > Physical Oceanography Department, Woods Hole Oceanographic Institution

3. Provide an overview summarizing the scope of data you want to archive. Describe the outputs, data variables, including their measurement resolution and coverage.

Ice-Tethered Profiler data, principally from the Arctic Ocean. The observations consist of temperature and salinity profiles (binned at 1 dbar resolution) from just below the sea ice-ocean interface to as deep as 750 m. A subset of these instruments included sensors for additional variables such as dissolved oxygen, bio-optical parameters and velocity. In addition, some systems supported temperature-salinity sensors at fixed depth just below the ice-ocean interface. Those time series records as well as geographic position series (documenting ice drift) are also part of the archive.

4. What is the time period covered by the dataset? (YYYY-MM-DD, YYYY-MM or YYYY)

From 2004-08-19

Ongoing as continuous updates to the data record

5. Edition or version number(s) of the dataset:

N/A

6. Approximate date when the dataset was or will be released to the public:

2016-04-15

7. Who are the expected users of the archived data? How will the archived data be used?

Scientists, students, technicians, operational organizations use ITP data to investigate and characterize Arctic Ocean water properties and sea ice motion, analogous to how Argo profiling float data are used.

8. Has the dataset undergone user evaluation and/or an independent review process? Did NCEI participate in design reviews?

The WHOI ITP group reviews final data products before they are made available.

9. Describe the dataset's relationship to other archived datasets, such as earlier versions or related source data. If this is a new version, how does it improve upon the previous version(s)?

Two basic versions of ITP data exist: near-real-time products (available soon after data are acquired by each ITP system) that are processed with automated routines, and an edited, calibrated, final data product (produced by expert technical staff). The latter supersedes the former as the final data become available.

10. List the input datasets and ancillary information used to produce the data.

Historical ship-based hydrographic observations provide reference information for deriving in situ calibration adjustments to ITP conductivity and dissolved oxygen measurements.

11. List web pages and other links that provide information on the data.

www.whoi.edu/itp

12. List the kinds of documents, metadata and code that are available for archiving. For example, data format specifications, user guides, algorithm documentation, metadata compliant with a standard such as ISO 19115, source code, platform/instrument metadata, data/process flow diagrams, etc.

1. ITP Data Processing Procedures (word doc) at <http://www.whoi.edu/filesserver.do?id=35803&pt=2&p=41486>
data description at <http://www.whoi.edu/filesserver.do?id=35804&pt=2&p=41486>

13. Indicate the data file format(s).

1. ascii, matlab

14. Are the data files compressed?

various

15. Provide details on how the files are named and how they are organized (e.g., file_name_pattern_YYYYMM.tar in monthly aggregations).

Data from each ITP system is identified by an instrument number. The names of data files associated with each instrument incorporate this number. Details are given here: <http://www.whoi.edu/page.do?pid=23096>

16. Explain how to access sample data files and/or a file listing for previewing. If it is not available now, when will it be available?

sample files and previewing may be accessed via the project website www.whoi.edu/itp

17. What is the total data volume to be submitted?

Continuous Data: data volume rate for a continuous data production.

Total Data Volume Rate: 5KB per Year

Data File Frequency: 2 per Year

Data Production Start:

18. Are later updates, revisions or replacement files anticipated? If so, explain the conditions for submitting these additional data to the archive.

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The packages will be established as follows:

New, never-before seen data files will be archived based on which instrument ID they are: each instrument will be assigned an accession number.

New, data from a previously submitted instrument ID: The AIP for that instrument will be updated (NODC's major-revision) with the new data file.

Revised, data that was previously submitted that needs to be updated: If the naming conventions match and the checksums do not match, then the most recent submission of that file will be assumed to be the latest and greatest submission and will replace the previous file.

Data will be pulled from the WHOI FTP site every 6 months.

19. Describe the server that will connect to the ingest server at NCEI for submitting the data.

Physical Location: Woods Hole, MA
System Name: ftp://ftp.whoi.edu/whoinet/itp
System Owner: WHOI
Additional Information:

20. What are the possible methods for submitting the data to NCEI? Select all that apply.

1. FTP PULL

21. Identify how you would like NCEI to distribute the data. Web access support depends on the resources available for the dataset.

1. Unknown

22. Will there be any distribution, usage, or other restrictions that apply to the data in the archive?

No known constraints apply to the data.

23. Discuss the rationale for archiving the dataset and the anticipated benefits. Mention any risks associated with not archiving the dataset at NCEI.

Facilitate broad community access to the ITP data archive. Provide additional safe-keeping beyond storage at WHOI. Satisfy requirement of Arctic Observing Network program. Possible risk includes losing the data in case of dramatic failures at WHOI.

24. Are the data archived at another facility or are there plans to do so? Please explain.

ACADIS at <https://www.aoncadis.org/home.html>

25. Is there an existing agreement or requirement driving this request to archive? Have you already contacted someone at NCEI?

Melissa Zweng

26. Do you have a data management plan for your data?

See <http://www.whoi.edu/page.do?pid=23096>

27. Have funds been allocated to archive the data at NCEI?

No

28. Identify the affiliated research project, its sponsor, and any project/grant ID as applicable.

NSF

and other agencies both domestic and foreign

29. Is there a desired deadline for NCEI to archive and provide access to the data?

No deadlines for archive or access.

30. Add any other pertinent information for this request.

None